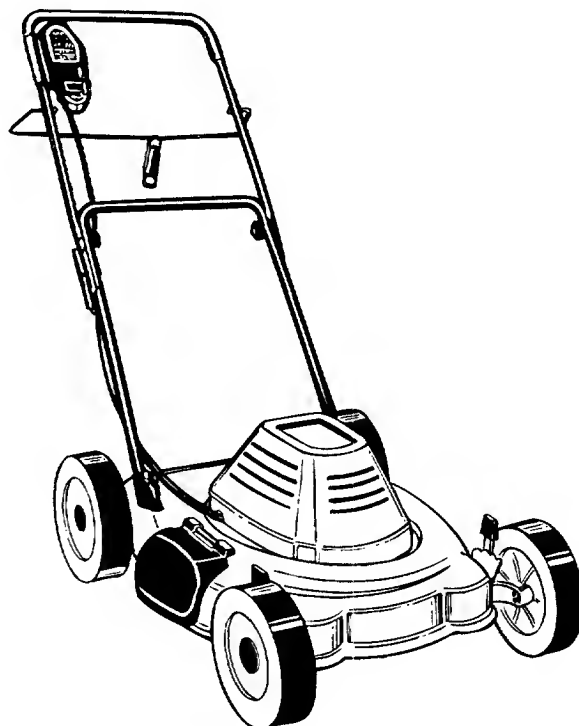


SEARS

**OWNER'S
MANUAL**

**MODEL NO.
247.370280**

**Caution:
Read and Follow
All Safety Rules
and Instructions
Before Operating
This Equipment**



CRAFTSMAN®

**110V 12AMP ELECTRIC
DOUBLE INSULATED
20" "3-IN-1"
ROTARY MOWER**

**Assembly
Operation
Customer Responsibilities
Service and Adjustment
Repair Parts**

This symbol on the product's nameplate
means it is listed by
UNDERWRITERS LABORATORIES INC.




SEARS, ROEBUCK AND CO., Hoffman Estates, IL 60179 U.S.A.

IMPORTANT

SAFE OPERATION PRACTICES



THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR ELECTRIC LAWN MOWER. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY. WHEN YOU SEE THIS SYMBOL— **HEED ITS WARNING.**



DANGER:

Your electric lawn mower was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.



WARNING: When using electric lawn mowers, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

TRAINING



1. Read all instructions carefully in their entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
3. Use Right Appliance—Do not use lawn mower for any job except that for which it is intended.
4. Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
5. No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.
6. Stay Alert—Watch what you are doing. Use common sense. Do not operate lawn mower when you are tired.
7. Keep the area of operation clear of all persons, particularly small children and pets. Stop motor when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidentally thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.



PREPARATION

1. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.
2. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine in any direction. Always use face or dust mask if operation is dusty.
3. Dress properly. Wear sturdy, rough-soled work shoes. Never operate a unit in barefeet, sandals or sneakers. Do not wear loose clothing or jewelry. They can be caught in moving parts. Use of rubber gloves and footwear is recommended when working outdoors.
4. Never attempt to make a wheel or cutting height adjustment while the motor is running.
5. Mow only in daylight or in good artificial light.
6. Avoid Dangerous Environment—Never operate the equipment in the rain or in damp wet locations. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold on the handle and walk, never run. Do not over-reach—keep footing and balance at all times.
7. Warning—To prevent electric shock use only with a UL Listed extension cord set suitable for outdoor use, such as Type SW-A, SOW-A, STW-A, STOW-A, SJW-A, SJOW-A, SJTW-A, or SJTOW-A.
8. Extension Cord—Make sure your extension cord set is in good condition, is heavy enough to carry the current your mower will draw, and is polarized (one blade of plug is wider than the other). A 10' length of 14 AWG extension cord (Part No. 629-0192 or equivalent) should be used. An acceptable substitute is a 50' length of 16 AWG cord. In applications where a longer cord is needed, a 150' length of 12 AWG cord may be used. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. To reduce the likelihood of disconnection of the extension cord set from the lawn mower, use the Plug Retainer and Cord Restraint provided.

9. To reduce the risk of electric shock, your mower is equipped with a polarized plug (one blade of plug is wider than the other). If the outlet on the end of your extension cord does not fit fully into the plug on your mower, reverse the outlet and try plugging it in again. The same is true for the end of the extension cord you plug into your house outlet. If after reversing the connections, either one still does not fit, contact a qualified electrician to install the proper outlet and/or plug. Do not change the plug on the mower in any way.
10. Inspect extension cord periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
11. Fuses—The mower should be operated on a 15 or 20 AMP circuit. If difficulty in starting is experienced with a standard 15 AMP fuse or circuit breaker, contact your nearest authorized service location. Do not use a higher rated fuse without consulting your power company.
12. Ground Fault Circuit Interrupter (GFCI) protection should be provided on the circuit(s) or outlet(s) to be used for the lawn mower. Receptacles are available having built-in GFCI protection and may be used for this measure of safety.
13. For your safety, use the slope gauge included as part of this manual to measure slopes before operating this unit on a sloped or hilly area. If the slope is greater than 15° as shown on the slope gauge, do not operate this unit on that area or serious injury could result.



OPERATION

1. Do not abuse cord—never pull lawn mower by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
2. If extension cord is damaged in any manner while plugged in, disconnect extension cord from house receptacle.
3. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
4. Stop the motor when you leave the mower and before crossing gravel drives, walks or roads.
5. After striking a foreign object, shut off the motor, make absolutely sure the blade and all moving parts have completely stopped, disconnect the power cord to prevent accidental starting, then thoroughly inspect the mower for any damage. Such damage must be repaired before restarting and operating the mower.
6. If the equipment should start to vibrate abnormally, stop the motor and check immediately for the cause. Vibration is generally a warning of trouble.
7. Stop the motor, unplug the power cord, and wait for the blade and all moving parts to stop before cleaning or unclogging, repairing or inspecting the mower. The cutting blade continues to rotate for a few seconds after the motor is shut off.
8. Do not force lawn mower. It will do the job better and safer at the rate for which it was designed. Use right appliance—Do not use lawn mower for any job except that for which it is intended.
9. Mow across the face of slopes, never up-and-down. Never cut grass by pulling mower toward you. Exercise extreme caution when operating mower on uneven terrain or changing direction on slopes. Do not mow excessively steep slopes. Don't overreach—Keep proper footing and balance at all times. A slip and fall can cause serious personal injury.
10. Never operate mower without proper guards, plates or other safety protective devices in place and in working order.
11. **The blade/motor control on this mower is installed to minimize the risk of blade contact injury and is required by federal regulations. Do not under any circumstances attempt to defeat the function of the blade/motor control.**
12. To avoid electric shock hazard, never push mower over cord. Do not mow around the lawn in circles. Always travel back and forth across the lawn, beginning at the point nearest the electric outlet to which the extension cord is connected. This will keep the cord on the mowed area of the lawn and out of the way.

SAFE OPERATION PRACTICES (Continued)

13. Do not operate mower after it has been dropped or damaged in any manner. Return mower to nearest authorized service location.
14. The use of accessory attachments not recommended by the mower manufacturer may cause hazards.
15. Do not operate this mower with the chute door open, unless the complete grass catcher or side chute deflector is properly mounted on the mower.
7. Maintain lawn mower with care. Keep blade sharp and clean for best and safest performance. **Follow instructions for lubricating and changing accessories.**
8. Check the grass catcher bag frequently for wear or deterioration. Replace a worn or damaged bag immediately. Be sure replacement bag meets original equipment specifications.

MAINTENANCE AND STORAGE

1. Warning—Disconnect power cord from electrical outlet before performing any maintenance or service on mower.
2. Check the blade and motor mounting bolts at frequent intervals for proper tightness. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Keep blade sharp.
4. Use identical replacement blades only. Replace damaged cord.
5. To reduce fire hazard, keep the motor free of grass, leaves, or excessive grease.
6. Store idle lawn mower indoors when not in use. Allow motor to cool before storing in any enclosure. Lawn mower should be stored indoors in dry, high or locked-up place, out of reach of children.



DOUBLE INSULATED LAWN MOWER

DOUBLE INSULATION IS A CONCEPT IN SAFETY IN ELECTRIC LAWN MOWERS, WHICH ELIMINATES THE NEED FOR THE USUAL THREE WIRE GROUNDED POWER CORD AND GROUNDED SUPPLY SYSTEM. WHEREVER THERE IS ELECTRIC CURRENT IN THE MOWER, THERE ARE TWO COMPLETE SETS OF INSULATION TO PROTECT THE USER. ALL EXPOSED METAL PARTS ARE ISOLATED FROM THE INTERNAL METAL MOTOR COMPONENTS WITH PROTECTING INSULATION.

IMPORTANT—SERVICING OF A LAWN MOWER WITH DOUBLE INSULATION REQUIRES EXTREME CARE AND KNOWLEDGE OF THE SYSTEM AND SHOULD BE PERFORMED ONLY BY A QUALIFIED SERVICE TECHNICIAN. FOR SERVICE WE SUGGEST YOU RETURN THE LAWN MOWER TO YOUR NEAREST AUTHORIZED SERVICE DEALER FOR REPAIR. ALWAYS USE ORIGINAL FACTORY REPLACEMENT PARTS WHEN SERVICING.

SAVE THESE INSTRUCTIONS

CONGRATULATIONS on your purchase of a Sears Craftsman Lawn Mower. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please return the lawn mower to the nearest Sears Service Center/Department in the United States. We have competent, well-trained technicians and the proper tools to service or repair this unit.

Please read and retain this manual. The instructions will enable you to assemble and maintain your lawn mower properly. Always observe the "SAFETY RULES."

MODEL
NUMBER **247.370280**

SERIAL
NUMBER _____

DATE OF
PURCHASE _____

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A LABEL ATTACHED TO THE DECK, NEAR THE RIGHT REAR WHEEL.

YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

PRODUCT SPECIFICATIONS

Voltage:	110 - 120 AC
Amperage:	12
Hz:	60
Blade Bolt Torque:	450-600 in. lbs.

MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your lawn mower.
- Follow the instructions under "Customer Responsibilities" (page 10) and "Storage" sections of this Owner's Manual.

ONE YEAR LIMITED WARRANTY ON CRAFTSMAN LAWN MOWER

For one year from the date of purchase, when this Craftsman Lawn Mower is maintained and lubricated according to the instructions in the owner's manual, Sears will repair, free of charge, any defect in material and workmanship.

If this Craftsman Lawn Mower is used for commercial purposes, this warranty applies for only 90 days from the date of purchase.

This warranty does not cover:

- Expendable items which become worn during normal use, such as mower blades or blade adapters.
- Repairs necessary because of operator abuse or negligence, including bent motor shafts and the failure to maintain the equipment according to the instructions contained in the owner's manual.

WARRANTY SERVICE IS AVAILABLE BY RETURNING THE CRAFTSMAN LAWN MOWER TO THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES. THIS WARRANTY APPLIES ONLY WHILE THIS PRODUCT IS IN USE IN THE UNITED STATES.

This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

SEARS, ROEBUCK AND CO., Department D/817WA, Hoffman Estates, IL 60179

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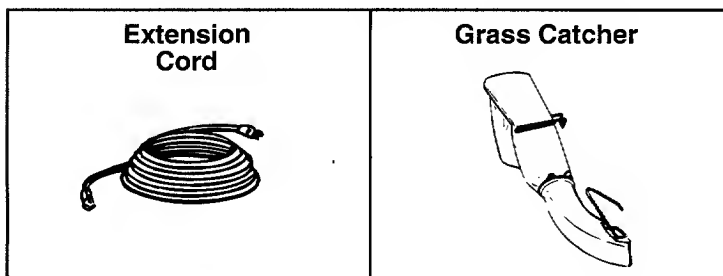
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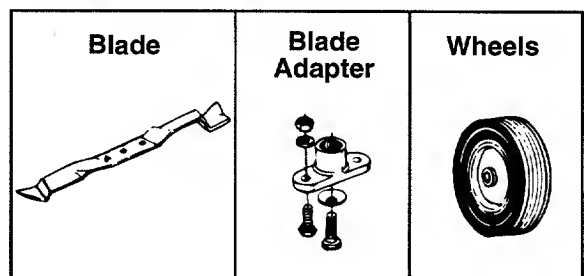
MOWER ACCESSORIES

These accessories were available when the mower was purchased. They are also available at most Sears retail outlets, catalog and service centers. Most Sears stores can order repair parts for you, when you provide the model number of your mower.

MOWER PERFORMANCE



MOWER MAINTENANCE



ASSEMBLY

NOTE: Reference to right or left hand side of the mower is observed from the operating position.

TO REMOVE MOWER FROM CARTON

- Remove the carton inserts (if any). Remove the owner's manual and side discharge chute which are in the carton. Lift the mower from the carton, or cut the corners of the carton and roll the mower out.

NOTE: A grass catcher bracket is in the bag with the owner's manual. Keep this bracket in a safe place. If you purchase the optional grass catcher, mount the bracket on the right side of the upper handle as shown on page 13 of this manual, key 87.

HOW TO SET-UP YOUR LAWN MOWER

- Remove any cardboard pieces which may be between the upper and lower handles for shipping purposes.
- Pull up and back on the upper handle to raise the handle into the operating position. Make certain the lower handle is seated securely into the handle mounting brackets. Tighten the hand knobs on each side of the handle. See figure 1.

NOTE: Your mower is shipped with the handle in the higher height position. If you wish to lower the height of the handle, refer to the Service and Adjustment Section at this time.

- Remove the hairpin clips from the outer hole in the weld pins on the handle mounting brackets. Place the hairpin clips in the **inner** hole. See figure 2.
- Make certain all nuts and bolts are tightened securely.

Your mower has been shipped as a mulcher. To discharge grass to the side, proceed as follows:

- To convert your mower from a mulcher to a side discharge mower, lift the mulching plug. See figure 3. Slide the two hooks on the side discharge deflector under the hinge pin on the mulching plug assembly. Lower the mulching plug.

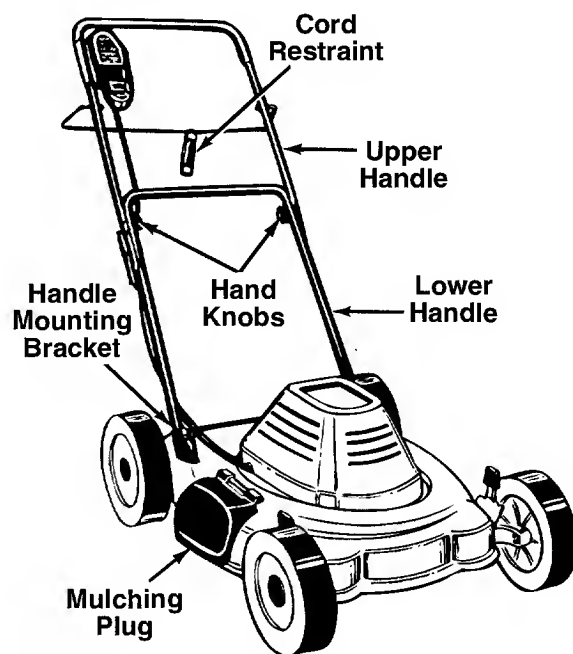


FIGURE 1.

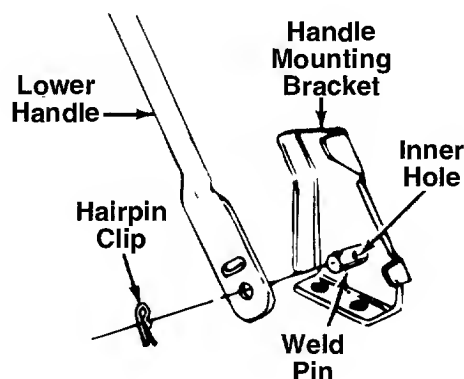


FIGURE 2.

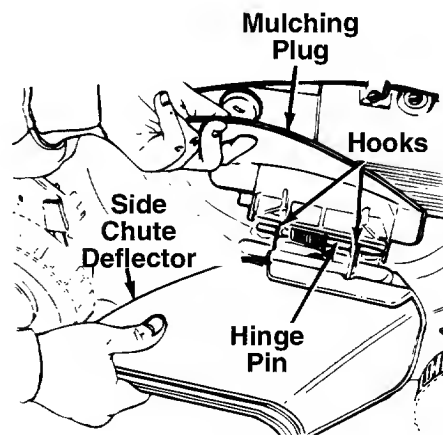


FIGURE 3.

OPERATION

KNOW YOUR LAWN MOWER

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR LAWN MOWER. Compare the illustrations with your lawn mower to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

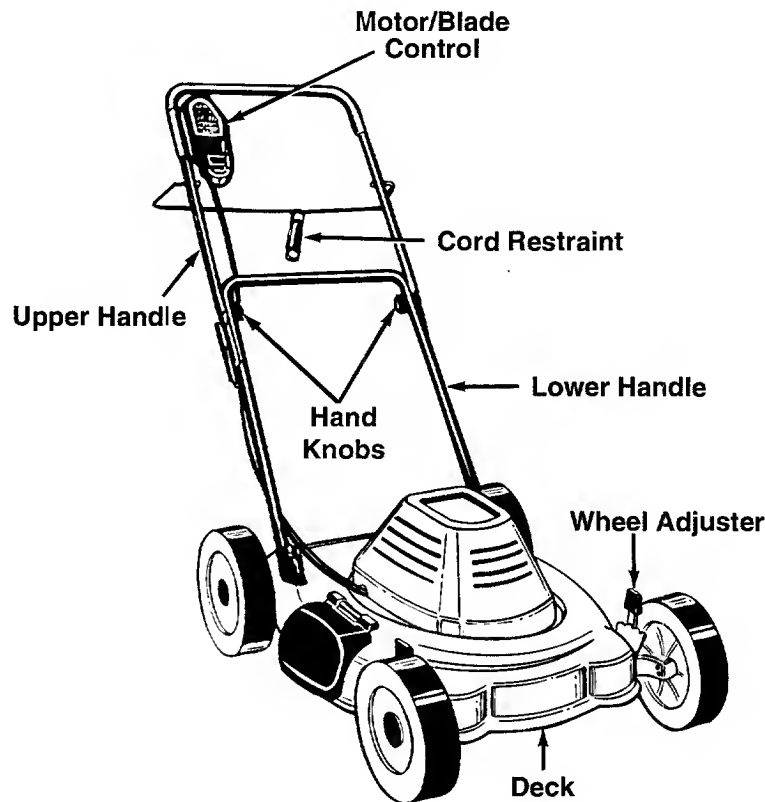


FIGURE 4.

MEETS CPSC BLADE SAFETY REQUIREMENTS

Sears Lawn Walk-Behind Mowers conform to the safety standards of the American National Standards Institute, Underwriters Laboratories, Inc., and the U.S. Consumer Product Safety Commission. The blade turns when the engine is running.

MOTOR/BLADE CONTROL LEVER—must be held against the handle to start and run the motor and blade. Release to stop the motor and blade.

CORD RESTRAINT—helps prevent disconnection of extension cord from motor/blade control.

BEFORE USING YOUR LAWN MOWER, AGAIN REFER TO THE “SAFETY RULES” AS SHOWN ON PAGE 2 OF THIS MANUAL. ALWAYS BE CAREFUL.



The operation of any lawn mower can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields before starting power tool operation or while performing any adjustments or repairs. We recommend Wide Vision Safety Mask for over spectacles or standard glasses available at Sears Retail or Catalog Stores.

HOW TO USE YOUR MOWER



WARNING: DO NOT OPERATE THE MOWER WITHOUT THE PROTECTIVE SHIELD ON THE REAR OF THE DECK IN PLACE.



WARNING: BE SURE THAT LAWN IS CLEAR OF STONES, STICKS, WIRES, OR OTHER OBJECTS WHICH COULD DAMAGE LAWN MOWER OR ENGINE. SUCH OBJECTS COULD BE ACCIDENTALLY THROWN BY THE MOWER IN ANY DIRECTION AND CAUSE SERIOUS PERSONAL INJURY TO THE OPERATOR AND OTHERS.



WARNING: TO PREVENT ELECTRIC SHOCK, DO NOT OPERATE THE MOWER IN DAMP OR WET LOCATIONS.

TO STOP MOTOR AND BLADE

- Release the motor/blade control handle to stop the engine and blade. (You will hear a high pitched noise, which is the result of deceleration of the electric motor. Sparking at the top of motor, inside the motor cover, is also normal during deceleration.)



WARNING: THE BLADE CONTINUES TO ROTATE FOR A FEW SECONDS AFTER THE MOTOR IS SHUT OFF. IF MOTOR DOES NOT COME TO AN IMMEDIATE STOP WHEN THE MOTOR/BLADE CONTROL HANDLE IS RELEASED, CONTACT AN AUTHORIZED SERVICE LOCATION.

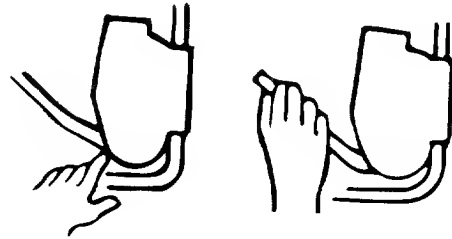
- Disconnect the power source to prevent accidental starting while equipment is unattended.



WARNING: IF YOU STRIKE A FOREIGN OBJECT, STOP THE MOTOR. DISCONNECT THE POWER SOURCE, THOROUGHLY INSPECT THE MOWER FOR ANY DAMAGE, AND REPAIR THE DAMAGE BEFORE RESTARTING AND OPERATING THE MOWER. EXTENSIVE VIBRATION OF THE MOWER DURING OPERATION IS AN INDICATION OF DAMAGE. THE UNIT SHOULD BE PROMPTLY INSPECTED AND REPAIRED.

TO START MOTOR AND ENGAGE BLADE

Standing behind the unit, lift the motor/blade control handle with the left forefinger, then pull handle up and hold it against the upper handle with right hand. See figure 5.



**FIGURE 5.
MOTOR/BLADE CONTROL**



WARNING: THE MOTOR/BLADE CONTROL ON THIS MOWER IS INSTALLED TO MINIMIZE THE RISK OF BLADE CONTACT INJURY AND IS REQUIRED BY FEDERAL REGULATIONS. DO NOT UNDER ANY CIRCUMSTANCES ATTEMPT TO DEFEAT THE FUNCTION OF THE MOTOR/BLADE CONTROL.

The motor/blade control requires the operator to be behind the handle to start and run the mower. When the operator releases the control lever, the motor will stop and an internal brake helps the blade to stop quickly.

When the operator leaves the operating position to change the cutting height, or pick up sticks or other objects in the way, the motor will stop automatically when the motor/blade control lever is released.

CUTTING HEIGHT ADJUSTMENT



WARNING: TURN OFF MOTOR AND DISCONNECT POWER CORD BEFORE ADJUSTING THE CUTTING HEIGHT.

Each wheel has an adjuster lever to set the cutting height on your mower. They should always be set to the same position.

- Raise wheels for low cut and lower wheels for high cut.
- To change cutting height, move adjuster levers toward wheels. See figure 6. Move wheels up or down to suit your requirements. Be sure all four levers are in the same setting.

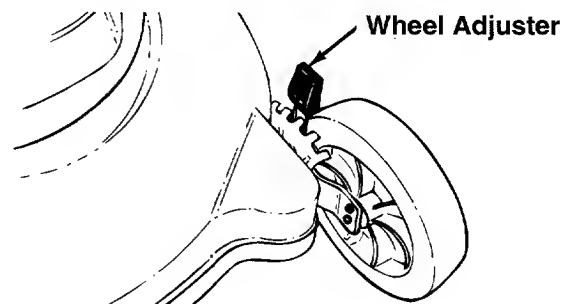


FIGURE 6.

- Adjust cutting height to suit your requirements. Refer to the "Mowing and Mulching Tips" on page 9. (The height adjusters may seem hard to move when new. They will operate easier after some use.)

OPERATION

CORD CONNECTION

EXTENSION CORD

IMPORTANT: A 100 FOOT LENGTH OF 14 AWG EXTENSION CORD (PART NO. 629-0192 OR EQUIVALENT) SHOULD BE USED. AN ACCEPTABLE SUBSTITUTE IS A 50 FOOT LENGTH OF 16 AWG CORD. IN APPLICATIONS WHERE A LONGER CORD IS NEEDED, A 150 FOOT LENGTH OF 12 AWG CORD MAY BE USED. USING ANY OTHER LENGTH OR RATING OF CORD WILL DIMINISH THE PERFORMANCE AND POSSIBLY THE LIFE OF THE ELECTRIC MOTOR. IN ALL CASES, THE EXTENSION CORD SHOULD BE A UL LISTED CORD SET SUITABLE FOR OUTDOOR USE.

- The length of extension cord you will need (not provided with unit) depends on the size of the area to be mowed. See extension cord information above.

CORD RESTRAINT

- Attach extension cord to the cord restraint as follows. Form a small loop in the extension cord. Allow enough excess cord to make the connection to the motor/blade control (approximately 20 inches). Slip the loop through the slot on the bottom of the cord restraint, and up over the tab, to prevent disconnection from the motor/blade control during operation. Leave enough cord to allow the cord restraint to move freely from side to side. See figure 7.

CONNECTION TO THE MOTOR/BLADE CONTROL

- To attach extension cord to the mower, swing open the spring-loaded plug retainer located beneath the motor/blade control. Connect the plug on the extension cord fully onto the plug on the mower. The mower is equipped with a polarized AC power plug (one blade of the plug is wider than the other), which will fit into the plug on the extension cord only one way. See figure 7, inset. If unable to make a full connection, try reversing the plug on the extension cord. Should the plugs still fail to fit, contact your service dealer for assistance. Do not defeat the safety purpose of the polarized plug.

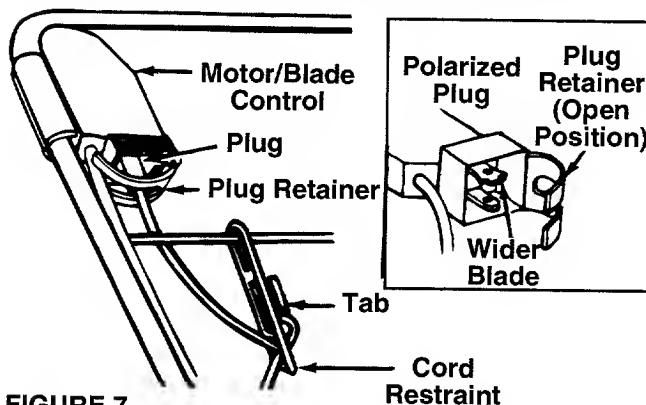


FIGURE 7.

CONNECTION TO THE ELECTRIC POWER SOURCE

- Plug the extension cord into any convenient 110-120 volt 60 cycle A.C. outlet or receptacle for your source of power. This outlet may be located either out-of-doors or indoors. If an inside receptacle is used, the extension cord can be taken out either through the doorway or a window. To avoid blowing fuses, pick an outlet that is not overloaded. Your mower will operate satisfactorily on a circuit that is fused for 15 amperes. Do not use oversize fuses without consulting your power company.

TO CONVERT MULCHER TO SIDE DISCHARGE

- To convert your mower from a mulcher to a side discharge mower, lift the mulching plug. Refer to figure 3. Slide the two hooks on the side discharge deflector under the hinge pin on the mulching plug assembly. Lower the mulching plug.

MOWING AND MULCHING TIPS

Never mow around the lawn in circles. Always travel back and forth across the lawn, beginning at the point nearest the electric outlet where cord is connected. See figure 8. Cut grass moving away from the outlet so the cord lies in the cut portion of the lawn, out of the way. Do not allow extension cord to wrap around trees, shrubs or other obstacles.

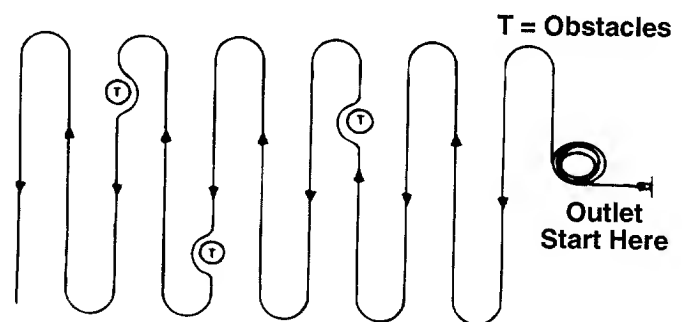


FIGURE 8.

The grass condition at the time of mowing determines the proper mower cutting height setting for best lawn appearance. For a healthy lawn, always cut one-third or less of the total length of the grass at any one cutting.

For extremely heavy cutting, reduce the width of cut.

When mulching under certain conditions, such as very tall grass, it may be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of grass clippings. Under heavy conditions cross cut for additional mulching of surface debris.

OPERATION

When picking up the extension cord, wind the cord in a series of equal loops on each side of your hand to prevent snarling. See illustration at right.



CUSTOMER RESPONSIBILITIES

GENERAL RECOMMENDATIONS

- Follow the Maintenance Schedule below.



WARNING: BE CERTAIN TO DISCONNECT THE POWER SUPPLY BEFORE PERFORMING ANY REPAIRS OR MAINTENANCE.

MAINTENANCE SCHEDULE

SERVICE RECORD	SCHEDULE			SERVICE DATES					
	Every Use	After First Two Hours	Every 25 Hours						
Blade Replaced			√						
Lubricate Mower			√						
Cleaning	√								

√ CHECK

LUBRICATION

MOTOR

The motor on your mower does not require lubrication.

WHEELS

DO NOT oil or grease the wheels. Viscous lubricants will attract dust and dirt that will shorten the life of the wheels. If you feel the wheels must be lubricated, use only a dry, silicone type lubricant sparingly.

WHEEL ADJUSTERS

For easy operation, lubricate the wheel adjusters at least once a season with light oil.

MOWER

BLADE CARE

Your mower will work better with a sharp blade.



WARNING: BE CERTAIN TO DISCONNECT THE POWER SUPPLY BEFORE PERFORMING ANY MAINTENANCE.

TO REMOVE BLADE (See Figure 9):

- Turn mower on its side.
- Use a block of wood between blade and mower deck to prevent blade from turning when bolt is removed. Protect your hands with gloves and/or wrap blade with heavy cloth.

- Remove center blade bolt by turning counterclockwise. Use a 9/16" box or open-end wrench.



WARNING: PERIODICALLY INSPECT THE BLADE ADAPTER FOR CRACKS, ESPECIALLY IF YOU STRIKE A FOREIGN OBJECT. REPLACE WHEN NECESSARY.

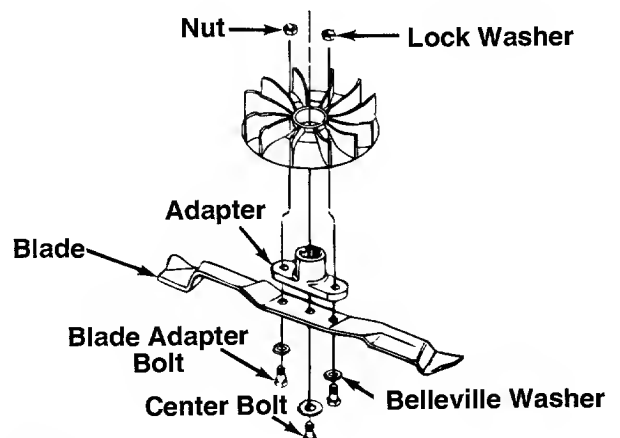


FIGURE 9.

CUSTOMER RESPONSIBILITIES

TO REPLACE BLADE (See Figure 9):

- Put blade adapter on motor shaft.
- Fit blade in adapter. Be sure trailing edge of blade is up towards engine.
- Assemble bolts, washers, and nuts in the exact order of removal.
- Use block of wood to hold blade and tighten bolt clockwise. The recommended torque for the center blade bolt is 450-600 in. lbs. The recommended torque for the two blade adapter bolts is 200-300 in. lbs. Torque wrenches are available at most Sears stores and through the catalog.

IMPORTANT: THE BOLT USED TO SECURE THE BLADE TO THE MOTOR SHAFT IS SPECIALLY HEAT-TREATED. DO NOT SUBSTITUTE.



CAUTION: A LOOSE BLADE CAN BE DANGEROUS AND MAY MAKE THE MOTOR HARD TO START.

Use only a Sears authorized replacement blade to get the best cutting results.

TO SHARPEN BLADE

NOTE: We do not recommend sharpening the blade—but if you do, be sure blade is balanced.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.

- Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration when running and eventual damage to mower and motor.
- To check blade balance, drive a nail into a beam or wall. Leave about one inch of straight nail exposed. Place center hole of blade over the head of the nail. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, blade is not balanced. Sharpen the heavy end until the blade is balanced.

CLEANING



WARNING: DISCONNECT POWER SUPPLY BEFORE CLEANING YOUR MOWER.

- Remove any build-up of grass and leaves on or around motor cover. DO NOT USE WATER.
- Clean the underside of your mower after each use by turning the mower on its side and scraping to remove any build-up of grass, leaves, dirt or other matter. DO NOT USE WATER.
- Occasionally use a dry cloth to wipe mower.

OPTIONAL GRASS BAG

Under normal usage, the grass bag is subject to wear and should be checked periodically. Be certain any replacement bag complies with the mower manufacturer's specifications.

SERVICE AND ADJUSTMENTS

REAR TRAIL SHIELD

The rear trail shield, attached between the rear wheels of your mower, is provided to minimize the possibility that objects will be thrown out the rear of the mower toward the operator. If the shield becomes damaged, it should be replaced.

TO ADJUST CUTTING HEIGHT

Refer to "CUTTING HEIGHT ADJUSTMENT" in Operation section of manual.

TO ADJUST HANDLE HEIGHT

Your mower is shipped with the handle in the higher height position. To lower the handle height, proceed as follows.

- Remove the upper handle by removing the hand knobs and carriage bolts. Lay the upper handle out of the way, being careful not to bend or kink the cable.

- Remove the hairpin clips from the weld pins on the handle brackets. Press inward on the legs of the lower handle and remove it from the mower.
- Turn the lower handle around so the notch on the bottom of the lower handle faces forward as shown in figure 10. Reassemble, placing the bottom holes in the handle over the weld pins in the handle mounting bracket. Place the hairpin clips in the inner holes in the weld pins.
- Reassemble the upper handle.

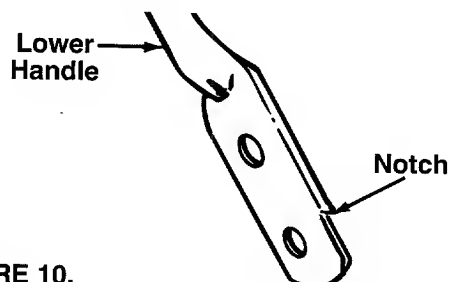


FIGURE 10.

STORAGE

Your mower should be prepared for off-season storage as follows:

MOWER

- Make sure motor/blade control is in OFF (released) position for storage.
- Clean underside of mower housing (See "CLEANING" in Customer Responsibilities section of manual).
- Inspect and replace/sharpen blade, if required (See "BLADE CARE" in Customer Responsibilities section of manual).
- Lubricate as shown in "MAINTENANCE SCHEDULE" (See Customer Responsibilities section of manual).

HANDLE

The handle may be folded away completely for storage.

- Loosen the hand knobs on the sides of the handle, and let the upper handle fold down to the rear.
- Push inward on each side of the lower handle, and lift the sides of the lower handle past the edges of the handle mounting brackets. Fold the lower handle forward.

CAUTION: When folding the handle for storage or transportation, be careful not to bend or kink the power cord.

To return the mower to the operating position, pull up and back on the handle until it locks in position. Tighten the hand knobs which secure the upper and lower handles.

EXTENSION CORD

- Replace extension cord if cut or abraded.
- Extension cord should be wiped dry of any foreign substances such as oil or stains.
- Wind cord and store in cool, dry place (See cord winding instruction on page 10).

OTHER

Do not store your mower under any plastic cover. Plastic cannot breathe which allows condensation to form and causes metal components of mower to rust.

TROUBLE SHOOTING GUIDE

Trouble	Possible Cause(s)	Corrective Action
Does not start	<ol style="list-style-type: none"> 1. Motor/blade control disengaged. 2. Extension cord disconnected. 3. Blown fuse or a tripped circuit breaker. 4. Motor/blade control switch defective. 	<ol style="list-style-type: none"> 1. Engage motor/blade control. 2. Be sure that the extension cord is plugged into the outlet and the lawn mower switch plug. 3. Check to see if a fuse has been blown or a circuit breaker tripped in your electrical box. 4. Replace motor/blade control switch.
Frequent blowing of fuses	<ol style="list-style-type: none"> 1. Cutting too much grass. 2. Circuit overloaded 	<ol style="list-style-type: none"> 1. Set in "Higher Cut" position. 2. Do not use a higher rated fuse without consulting your power company. If condition persists (be sure circuit is not overloaded), have your unit checked by your nearest Authorized Sears Service Dealer.
Loss of power	<ol style="list-style-type: none"> 1. Cutting too much grass. 2. Build-up of grass, leaves and debris under mower. 	<ol style="list-style-type: none"> 1. Set in "Higher Cut" position. 2. Disconnect power cord and clean underside of mower housing.
Poor or uneven cut	<ol style="list-style-type: none"> 1. Worn, bent or loose blade. 2. Build-up of grass, leaves and debris under mower. 	<ol style="list-style-type: none"> 1. Replace blade. Tighten blade bolts. 2. Disconnect power cord and clean underside of mower housing.
Too much vibration	<ol style="list-style-type: none"> 1. Worn, bent or loose blade. 2. Bent motor shaft. 	<ol style="list-style-type: none"> 1. Replace blade. Tighten blade bolts. 2. Contact Sears Service Department.
Hard to push	<ol style="list-style-type: none"> 1. High grass or cutting height too low. 2. Rear of mower housing and blade dragging in heavy grass. 	<ol style="list-style-type: none"> 1. Raise cutting height. 2. Raise cutting height.

Note: For repairs beyond the minor adjustments listed above, contact your nearest SEARS Service Center.

This exploded view diagram illustrates the assembly of a portable electronic device, likely a handheld radio or scanner. The components are numbered as follows:

- 1-10:** Main chassis and internal frame components.
- 11-20:** Mounting brackets and structural supports.
- 21-30:** Base plate and internal mounting hardware.
- 31-40:** Motor assembly, including the motor housing (31), fan (4), and mounting flange (34).
- 41-50:** Wheel assembly, including wheels (42) and axle components (41, 43).
- 51-60:** Control panel and display assembly, including the display (50) and control buttons (51-59).
- 61-70:** Antenna and external connectors, including the antenna (61) and connector (62).
- 71-80:** Various small components, including screws (71, 72), washers (73), and mounting pins (74-79).
- 81-87:** Final assembly components, including the base plate (81) and mounting hardware (82-87).

The diagram shows the spatial relationship between these parts, indicating how they are assembled into the final device.

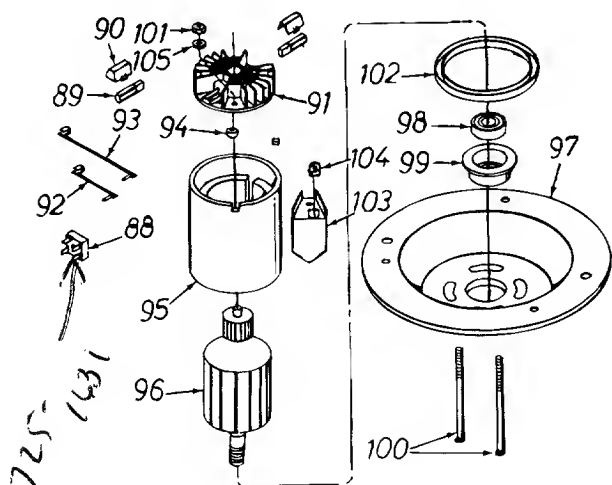
SEARS CRAFTSMAN 20" ELECTRIC MULCHING MOWER MODEL NO. 247.370280

Repair Parts

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	749-0884	Upper Handle	53	742-0720	20" Mulching Blade
2	747-0790	Cord Control Rod	54	731-1210	Handle—Switch Actuator
3	725-1590	Strain Relief—Cord	55	732-0679	Spring—Switch Handle
4	731-1270	Fan	56	725-1565	Switch
5	748-0356	Blade Adapter	57	710-1147	Screw #6-32 x .5" Lg.
6	738-0102	Axle Bolt	58	729-0304	Plug Ass'y.
7	17098	Hinge Clip	59	732-0680	Retainer Plug Spring
8	731-1447	Rear Flap	60	731-1211	Retainer Plug
9	749-0928	Lower Handle	61	731-1198	Latch
15	738-0507B	Shld. Bolt .5" Dia. x .434"	62	624-0053	Cord Ass'y. (Incl. Ref. #58)
20	682-3012A	Handle Brkt. Ass'y.—R.H.	63	732-0681	Spring Latch
21	682-3011A	Handle Brkt. Ass'y.—L.H.	64	731-1208	Housing—Upper Half
22	710-1017	Torx. Mach. AB-Tap Scr. 1/4 x .62" Lg.	65	731-1209	Housing—Lower Half (Not Shown)
24	736-0105	Bell-Wash. .38" I.D. x .88" O.D.	66	720-0226	Foam Grip
25	736-0356	Bell-Wash. .39" I.D. x 1.33" O.D.	68	721-0309	Insulator Strip
26	712-0798	Hex Nut 3/8-16 Thd.*	69	731-1219	Insulator Shield
27	14832	Spring Lever Ass'y. w/Knob	70	710-0597	Hex Bolt 1/4-20 x 1" Lg.*
28	15262B	Pivot Bar	71	736-3090	Fl-Wash. .26" I.D. x .72" O.D.
29	15261A	Height Adj. Plate	72	721-0311	Insulator
31	682-0016	20" Deck Ass'y.	73	726-0209	Cable Tie
32	14578	Height Adj. Ass'y. Comp.—R.F. & L.R.	77	710-1251	Hex Bolt 3/8-24 x 2.5" Lg.
	14579	Height Adj. Ass'y. Comp.—L.F. & R.R. (Not Shown)	78	720-0279	Handle Knob 1/4-20 Thd.
33	731-1264	Motor Cover	79	720-0241	Wing Nut Ass'y.
34	710-1128	Scr. #10-16 x .75" Lg.	80	714-0104	Hairpin Clip
35	710-1150	Self-Tap Scr. #7 x 1" Lg.	81	736-0451	Saddle Wash. .32" I.D.
36	712-0241	Hex Nut 3/8-24 Thd.	82	731-1407	Chute Deflector
37	710-1006	Hex L-Wash. TT-Tap Scr. 3/8-16 x .75" Lg.	83	682-7000	Mulching Plug Ass'y.
38	710-0191	Hex Bolt 3/8-24 x 1.25" Lg.	84	710-0599	Hex Wash. Hd. TT-Tap Scr. 1/4-20 x .5" Lg.
39	736-0452	Bell-Wash. .396" I.D. x 1.14" O.D.	85	736-0270	Bell-Wash. 1/4" I.D.
42	734-1781	Wheel Ass'y. Comp.	86	710-1174	Carr. Bolt 5/16-18 x 2" Lg.
46	712-0324	Hex Top L-Nut 1/4-20 Thd.	87	782-7007	Handle Bracket
47	726-0303	Cable Tie	88	725-1602	Rectifier†
48	736-0169	L-Wash. 3/8" I.D.*	89	624-0031	Brush and Liner Ass'y.†
49	818-60013	Motor, Cord & Switch Ass'y.	90	724-0200	Brush Holder Cap†
50	624-0032	Cord & Switch Ass'y. Comp. (See Breakdown)	91	724-0201	End Shield Brushes†
			92	729-0328	Red Brush Lead†
			93	729-0329	Blue Brush Lead†
			94	741-0875	Needle Bearing†
			95	624-0028	Housing Magnet Ass'y.†
			96	624-0029	Armature Ass'y.†
			97	724-0194	Motor End Plate†
			98	741-0124	Ball Bearing†
			99	748-0348	Bearing Adapter†
			100	710-1176	Carriage Bolt†
			101	712-0324	Hex L-Nut 1/4-20 Thd.†
			102	721-0306	Motor Hsg. Insulator†
			103	724-0202	Cover—Rectifier†
			104	731-1207	Strain Relief Bushing†
			105	736-3090	Fl-Wash. .26" I.D. x .72" O.D.†
			—	770-8619J	Owner's Manual

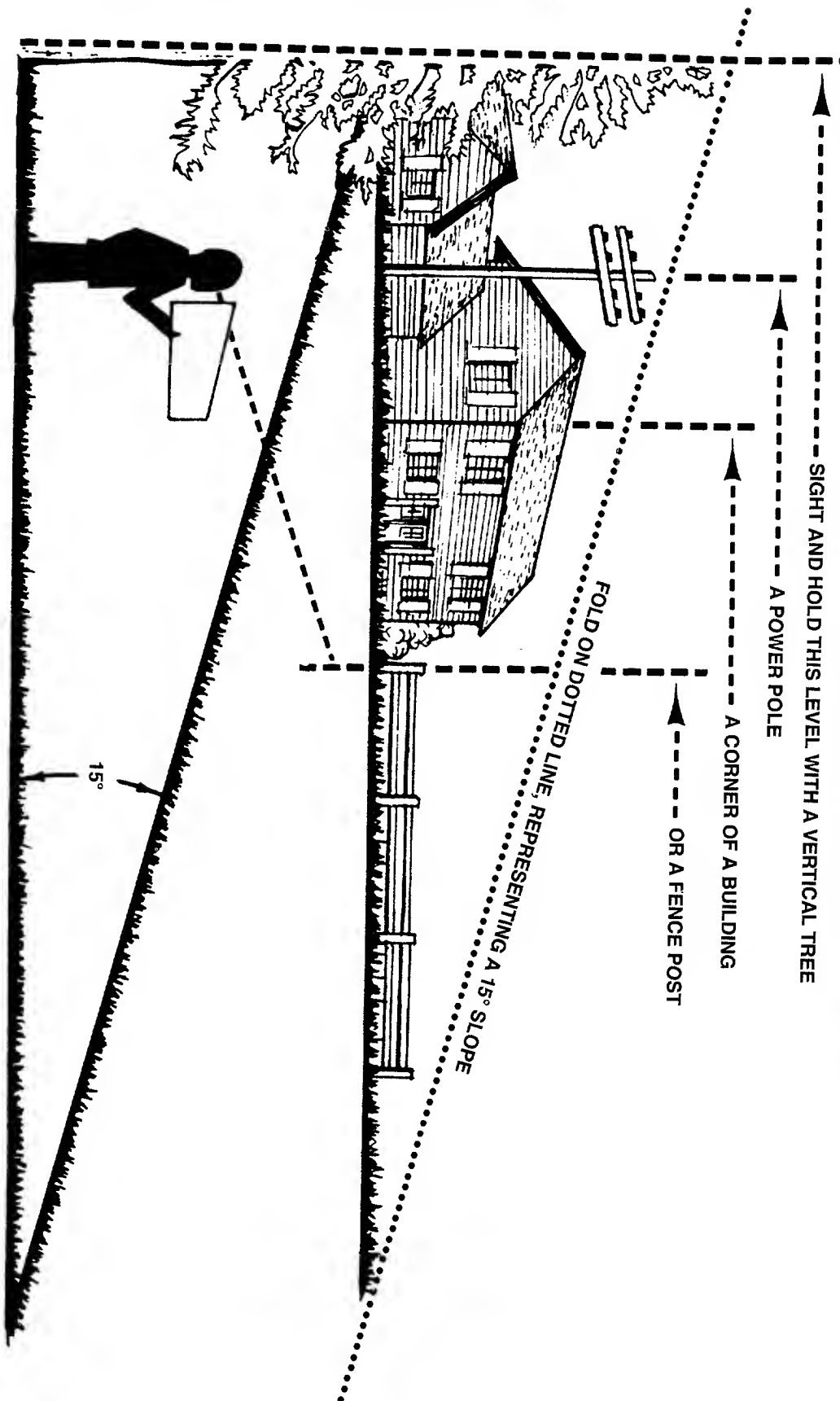
*Common Hardware—May be purchased locally.

†Part of Motor, Switch & Cord Ass'y. Comp. (Ref. 49)



SLOPE GAUGE

USE THIS PAGE AS A GUIDE TO DETERMINE SLOPES WHERE YOU MAY NOT OPERATE SAFELY.



Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2-1/2 feet every 10 feet). A riding mower could overturn and cause serious injury. If operating a walk-behind mower on such a slope, it is extremely difficult to maintain your footing and you could slip, resulting in serious injury.

Operate RIDING mowers up and down slopes, never across the face of slopes.

Operate WALK-BEHIND mowers across the face of slopes, never up and down slopes.

SEARS

**OWNER'S
MANUAL**

**MODEL NO.
247.370280**

**HOW TO ORDER
REPAIR PARTS**

CRAFTSMAN®

**110V 12AMP ELECTRIC
DOUBLE INSULATED
20" "3-IN-1"
MULCHING LAWN MOWER**

Each lawn mower has its own model number.

The model number for your lawn mower will be found on a label attached to the deck, near the right rear wheel.

All parts listed herein may be ordered through Sears, Roebuck and Co. Service Centers and most Retail Stores.

**WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE
FOLLOWING INFORMATION:**

- * PRODUCT - "Electric "3-IN-1" Mower"
- * MODEL NUMBER - 247.370280
- * PART NUMBER
- * PART DESCRIPTION

Your Sears merchandise has added value when you consider that Sears has service units nationwide staffed with Sears trained technicians...professional technicians specifically trained on Sears products, having the parts, tools and the equipment to insure that we meet our pledge to you..."we service what we sell."

SEARS, ROEBUCK AND CO., Hoffman Estates, IL 60179 U.S.A.

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